

Justin Lubin

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Curriculum Vitae, September 2019

Research Interests

My goal is twofold: to develop *elegant theories* and to make them usable by *humans*. To that end, I am interested in *programming language theory* and draw great inspiration from the study of *human-computer interaction*. In particular, I am interested in designing and leveraging type systems and language constructs to make programming languages, environments, and tools more accessible, intuitive, and powerful.

Education

University of Chicago, Chicago, IL 2016–2020 (expected)
B.S., Computer Science, Mathematics (Minor in Music).
GPA: 3.96/4.00.

Research Experience

Research Assistant 2016–present
University of Chicago, Chicago, IL.
Advisor: Ravi Chugh.

Research Assistant 2018
Carnegie Mellon University, Pittsburgh, PA.
Advisors: Jonathan Aldrich (CMU), Alex Potanin (Victoria University of Wellington).

Publications

Sketch-n-Sketch: Output-Directed Programming for SVG UIST 2019
Brian Hempel, Justin Lubin, and Ravi Chugh.
In *Proceedings of the ACM Symposium on User Interface Software and Technology (UIST)*.
New Orleans, LA, October 2019.

Deuce: A Lightweight User Interface for Structured Editing ICSE 2018
Brian Hempel, Justin Lubin, Grace Lu, and Ravi Chugh.
In *Proceedings of the International Conference on Software Engineering (ICSE)*.
Gothenburg, Sweden, May 2018.

Workshop Papers

Type-Directed Program Transformations for the Working Functional Programmer PLATEAU 2019
Justin Lubin and Ravi Chugh.
For *PLATEAU 2019*.
New Orleans, LA, October 2019.

Presentations

- Approximating Polymorphic Effects with Capabilities** 2018
SPLASH Student Research Competition.
Boston, MA, November 2018.
- Direct Manipulation Programming in Sketch-n-Sketch** 2018
International Conference on Functional Programming (ICFP) Tutorials.
St. Louis, MO, September 2018.
Presented with Ravi Chugh, Nick Collins, Brian Hempel, and Mikaël Mayer.

Posters

- Approximating Polymorphic Effects with Capabilities** 2018
Midwest Programming Languages Summit 2018.
Madison, WI, October 2018.

Honors

- Student Marshal** 2019
University of Chicago, Chicago, IL.
Appointed by the president of the university.
- Phi Beta Kappa Honor Society** 2019
University of Chicago, Chicago, IL.
Inducted in third year of undergraduate studies.
- First Place (Undergraduate Category)** 2018
SPLASH Student Research Competition, Boston, MA.
Awarded for *Approximating Polymorphic Effects with Capabilities.*
- Dean's List** 2016–2019
University of Chicago, Chicago, IL.

Community and Professional Service

- Volunteer Instructor** 2019
compileHer Tech Capstone.
Chicago, IL, April 2019.
Computer science educational outreach for middle school girls in Chicago.
- Student Volunteer** 2019
Elm in the Spring.
Chicago, IL, April 2019.
- Student Volunteer** 2018
International Conference on Functional Programming (ICFP).
St. Louis, MO, September 2018.

Other Activities

- Oregon Programming Languages Summer School** 2019
Topic: *Foundations of Probabilistic Programming and Security.*